Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class Period \_\_\_\_\_\_

More Practice Exploring Patterns

**Tile Function 3**: How many tiles does it take to make each figure.



Figure 3

Figure 2

Figure 1

1. Draw figure 4.

2. Explain how the number of tiles is growing with each new figure. Use a pink highlighter or

colored pencil to show this growth on the figures and later on the equation, table, and graph.

3. Explain how you can use this growth pattern to find the “0-step” for this function.

Use a yellow highlighter or colored pencil to show 0-step on equation, table, and graph.

4. Let represent the figure number and let represent the number of tiles. Write a

function rule that describes how to determine the total number of tiles needed to make

each figure. Check your function rule for figure 3.

5. Use the function rule to find the number of tiles in the 10th figure?

6. Make a table for this function. 7. Make a graph of this function.

**Tile Function 4:** How many tiles does it take to make each figure?

Figure 1

Figure 2

Figure 3

8. Draw Figure 4.

9. Explain how the number of tiles is growing with each new figure. Use a pink highlighter or

colored pencil to show this growth on the figures and later on the equation, table, and graph.

10. Explain how you can use this growth pattern to find the “0-step” for this function.

Use a yellow highlighter or colored pencil to show 0-step on equation, table, and graph.

11. Let represent the figure number and let represent the number of tiles.

Write a function rule that describes how to determine the total number of tiles

required to make each figure. Check your function rule for figure 3.

12. How many titles would be in figure # 10?

13. Make a table for this function. 14. Make a graph of this function.